SEPPIM S.A.S. Zone industrielle 61500 SEES France

SECTION 5 - 510(k) Summary

Introduction

According to the requirements of 21 CFR 807.92, the following information provides sufficient detail to understand the basis for a determination of sub-

stantial equivalence.

The assigned 510(k) number is: K 113269

Submitter

SEPPIM S.A.S.

Address

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ELITech Clinical Systems ALP IFCC SL

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Contact

Valérie GOURDON (Email: v.gourdon@elitechgroup.com)

Date of Preparation

November 2nd, 2011

Device names

REAGENT

Trade/proprietary Name:

Common or Usual Name: Alkaline phosphatase, "ALP IFCC SL" **Device Class**

Class II

Classification name Product code

Alkaline phosphatase or isoenzymes test system (Sec.862.1050) CJE- Nitrophenylphosphate, alkaline phosphatase or isoenzymes

Predicate device

Roche Diagnostics ALP2S (Alkaline phosphatase acc. to IFCC Gen.2) (K033185)

Device description

The device for this submission is available as kit only. It consists of 2

reagents R1 & reagent R2.

Reagent R1 contains: 2-Amino-2-methyl-1-propanol (AMP) buffer (pH

10.45), Magnesium ions, Zinc ions.

Reagent R2 contains: p-Nitrophenylphosphate (p-NPP), sodium azide.

Intended Use

ELITech Clinical Systems ALP IFCC SL is intended for the quantitative in vitro diagnostic determination of alkaline phosphatase in human serum and plasma on ELITech Clinical Systems Selectra analyzers.

It is not intended for use in Point of Care settings.

Indication for use

Alkaline phosphatase or its isoenzymes measurements are used in the diagnosis and treatment of liver, bone, parathyroid and intestinal diseases.

Comparison to Predicate device

	ELITech Clinical Systems Device (ALP IFCC SL)	Predicate device (Roche Diagnostics ALP2S (K033185)		
Intended use	Intended for the quantitative in vitro diagnostic determination of alkaline phosphatase in human serum and plasma on ELITech Clinical Systems Selectra analyzers.	In vitro test for the quantitative determination of alkaline phosphatase in human serum and plasma on the cobas c 111 system.		
	It is not intended for use in Point of Care settings.			
Indication for Use	Alkaline phosphatase or its isoen- zymes measurements are used in the diagnosis and treatment of liver, bone, parathyroid and intestinal di- seases.	Alkaline phosphatase or its isoen- zymes measurements are used in the diagnosis and treatment of liver, bone, parathyroid and intestinal diseases.		
Assay protocol	Colorimetric. Kinetic. Measurement of the rate of production of p-nitrophenol at 405 nm. Based on IFCC recommendations.	Colorimetric. Kinetic Measurement of the rate of production of p-nitrophenol at 409 nm. Based on IFCC recommendations.		
Composition	Reagent R1: AMP buffer (pH 10.45) Magnesium ions 2.4 mmol/L; Zinc ions 1.2 mmol/L;	Reagent R1: AMP buffer (pH 10.5) 1.724 mol/L; Magnesium acetate 3.83 mmol/L; Zinc sulfate 0.766 mmol/L; N-(2-hydroxyethyl)-ethylenediamine triacetic acid: 3.83 mmol/L;		
	Reagant R2: p-NPP 80 mmol/L; Sodium azide < 0.1%;	Reagent R2: p-NPP 132.8 mmoi/L; Preservatives		
Appearance of reagents	Liquid form, ready to use	Liquid form, ready to use		
Sample type	Serum Plasma	Serum Plasma		
Reagent storage	Store at 2-8 °C and protect from light. The reagent is stable until the expiry date stated on the label.	Store at 2-8 °C the reagent is stable until the expiry date stated on reagent.		
Expected values	Serum/plasma: Men: 20-50 years old: 53-128 U/L ≥ 60 years old : 56-119 U/L	Serum/plasma: Adults Males (n = 221)		
	Women:	Consensus values		
	20-50 years old: 42-98 U/L	Males 40-130 U/L		
	≥ 60 years old : 53-141 U/L	Females 35-105 U/L Children		
		aged 1 day <250 U/L		
		aged 2-5 days <231 U/L		
		aged 6 days-6 months <449 U/L		
		aged 7 months-1 year <462 U/L		
		aged 1-3 years <281 U/L		
		aged 4-6 years <269 U/L		
		aged 7-12 years <300 U/L		
!		aged 13-17 years (f) <187 U/L		
		aged 13-17 years (m) <390 U/L		

	ELFrech Clinical (ALP IF)	Pradicate device (Roche Diagnostice ALP2S (K033185)				
Instrument	Selectra ProM Analyzer		Cobas c111			
Measuring range	20 – 1023 U/L	3 – 1200 U/L				
Limit of detection (LoD)	6 U/L		3 U/L			
Limit of quantification (LoQ)	20 U/L					
Precision	Within run		Within run			
	Level 57 U/L	CV= 1.3%		87.5 U/L	CV= 0.5%	
	Level 144 U/L	CV= 0.9%	Level	229 U/L	CV= 0.7%	
	Level 262 U/L	CV= 0.6%	Level	43.1 U/L	CV= 0.6%	
			Level	190 U/L	CV= 1.2%	
	Total		Total			
	Level 57 U/L	CV= 4.4%	1	90.0 U/L	CV= 1.0%	
·	Level 144 U/L	CV= 3.8%	1	229 U/L	CV= 0.8%	
	Level 262 U/L	CV= 2.9%		53.2 U/L	CV= 0.8%	
			Level	195 U/L	CV= 0.9%	
Method comparison	y= 1.025 x - 1 U/L		y= 1.008 x - 2.207 U/L			
II.	r= 0.998		r= 1.000			
	range: 18 to 1005 U/L		range: 32 to 828 U/L			
Limitations	Hemoglobin: No significant interference up to 500 mg/dL. Triglycerides: No significant interference up to 3141 mg/dL.		Hemoglobin: No significant interference up to an H Index of 250 (approximate 250 mg/dL). Lipemia (Intralipid): No significant			
	Unconjugated billing cant interference u (513 µmol/L). Conjugated bilinub	p to 30.0 mg/dL in: No significant	influence up to an L index of 2000. There is poor correlation between the L index (corresponds to turbidity) and triglycerides concentration.			
	interference up to µmol/L). Ascorbic acid: No series up to 20.0 mg/s	lcterus: No significant influence up to I Index of 60 (approximate conjugated and unconjugated bilirubin con-				
	Acetaminophen: No ference up to 30.0 m Acetylsalicylic acidinterference up to 20	o significant Interged. g/dL. d: No significant	lion of 60 m	g/dL (1026 µmol/L)).		
Colibration Fraguesia	·		E desse	-	 -	
On board stability	1 day		5 days 10 days			
Calibrator	1 day	day Recommended calibration material			dibenting met-d-1	
Caid atti	(not included):		Recommended calibration material (not included):			
Controls	ELITech Clinical Systems ELICAL 2 Recommended quality control material		Roche Calibrator f.a.s. Recommended quality control material			
	(not included):	(not included):				
	ELITech Clinical Syst (Normal control)	Roche Precinorm U Roche Precipath U				
	ELITech Clinical Syst (Pathologic control)	tems ELITROL II				



10903 New Hampshire Avenue Silver Spring, MD 20993

ELITechGroup Epoch Biosciences c/o Debra K. Hutson 21720 23rd Dr., SE Suite 150 Bothell, WA 98021 USA

DEC 2 9 2011

Re: k113269

Trade Name: ELITech Clinical Systems ALP IFCC SL

Regulation Number: 21 CFR §862.1050

Regulation Name: Alkaline Phosphatase or Isoenzymes Test System

Regulatory Class: Class II Product Codes: CJE Dated: December 13, 2011 Received: December 22, 2011

Dear Ms. Hutson:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820).

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of In Vitro Diagnostic Device Evaluation and Safety at (301) 796-5450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at (301) 796-5760. For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to http://www.fda.gov/Medical Devices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance...

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-5680 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm

Sincerely yours,

Courtney H. Lias, Ph.D.

Director

Division of Chemistry and Toxicology Devices

Office of In Vitro Diagnostic Device

Evaluation and Safety

Center for Devices and Radiological Health

Enclosure

Indications for Use Form

510(k) Number (if known): <u>L1132</u> 69					
Device Name: ELITech Clinical Systems ALP IFCC SL					
Indications for Use: ELITech Clinical Systems ALP IFCC SL is intended for the quantitative in vitro diagnostic determination of alkaline phosphatase in human serum and plasma on ELITech Clinical Systems Selectra analyzers.					
It is not intended for use in Point of Care settings.					
Alkaline phosphatase or its isoenzymes measurements are used in the diagnosis and treatment of liver, bone, parathyroid and intestinal diseases.					
Prescription Use X Over-The-Counter Use (21 CFR 801 Subpart C)					
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)					
Concurrence of CDRH, Office of In Vitro Diagnostic Devices (OIVD)					
Normalista Division Sign-Off Office of In Vitro Diagnostic Device Evaluation and Safety 510(k) X13266					